

(2) INFORMATION FOR SEQ ID NO: 1:

(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

34

Glu	Met	Gln	Cys	Met	Trp	Phe	Gln	Thr	Glu	Cys	Ala	Gln	Ala	Tyr	Lys	210	215	220
Ala	Met	Asn	Lys	Phe	Gly	Glu	Ala	Leu	Lys	Lys	Cys	His	Glu	Ile	Glu	225	230	235
Arg	His	Phe	Ile	Glu	Ile	Thr	Asp	Asp	Gln	Phe	Asp	Phe	His	Thr	Tyr	245	250	255
Cys	Met	Arg	Lys	Ile	Thr	Leu	Arg	Ser	Tyr	Val	Asp	Leu	Leu	Lys	Leu	260	265	270
Glu	Asp	Val	Leu	Arg	Gln	His	Pro	Phe	Tyr	Phe	Lys	Ala	Ala	Arg	Ile	275	280	285
Ala	Ile	Glu	Ile	Tyr	Leu	Lys	Leu	His	Asp	Asn	Pro	Leu	Thr	Asp	Glu	290	295	300
Asn	Lys	Glu	His	Glu	Ala	Asp	Thr	Ala	Asn	Met	Ser	Asp	Lys	Glu	Leu	305	310	315
Lys	Lys	Leu	Arg	Asn	Lys	Gln	Arg	Arg	Ala	Gln	Lys	Lys	Ala	Gln	Ile	325	330	335
Glu	Glu	Glu	Lys	Lys	Asn	Ala	Glu	Lys	Glu	Lys	Pro	Gln	Arg	Asn	Pro	340	345	350
Lys	Lys	Lys	Lys	Asp	Asp	Asp	Asp	Glu	Glu	Ile	Gly	Gly	Pro	Lys	Glu	355	360	365
Glu	Leu	Ile	Pro	Glu	Lys	Leu	Ala	Lys	Val	Glu	Thr	Pro	Leu	Glu	Glu	370	375	380
Ala	Ile	Lys	Phe	Leu	Thr	Pro	Leu	Lys	Asn	Leu	Val	Lys	Asn	Lys	Ile	385	390	395
Glu	Thr	His	Leu	Phe	Ala	Phe	Glu	Ile	Tyr	Phe	Arg	Lys	Glu	Lys	Phe	405	410	415
Leu	Leu	Met	Leu	Gln	Ser	Val	Lys	Arg	Ala	Phe	Ala	Ile	Asp	Ser	Ser	420	425	430
His	Pro	Trp	Leu	His	Glu	Cys	Met	Ile	Arg	Leu	Phe	His	Ser	Val	Cys	435	440	445
Glu	Ser	Lys	Asp	Leu	Pro	Glu	Thr	Val	Arg	Thr	Val	Leu	Lys	Gln	Glu	450	455	460
Met	Asn	Arg	Leu	Phe	Gly	Ala	Thr	Asn	Pro	Lys	Asn	Phe	Asn	Glu	Thr	465	470	475
Phe	Leu	Lys	Arg	Asn	Ser	Asp	Ser	Leu	Pro	His	Arg	Leu	Ser	Ala	Ala	485	490	495
Lys	Met	Val	Tyr	Tyr	Leu	Asp	Ser	Ser	Ser	Gln	Lys	Arg	Ala	Ile	Glu	500	505	510
Leu	Ala	Thr	Thr	Leu	Asp	Gly	Ser	Leu	Thr	Asn	Arg	Asn	Leu	Gln	Thr			

515 520 525

Cys Met Glu Val Leu Glu Ala Leu Cys Asp Gly Ser Leu Arg Asp Cys
530 535 540

Lys Glu Ala Ala Glu Ala Tyr Arg Ala Ser Cys His Lys Leu Phe Pro
545 550 555 560

Tyr Ala Leu Ala Phe Met Pro Pro Gly Tyr Glu Glu Asp Met Lys Ile
565 570 575

Thr Val Asn Gly Asp Ser Ser Ala Glu Thr Glu Glu Leu Ala Asn Glu
580 585 590

Ile

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS

- (A) LENGTH: 3418 base pairs
(B) TYPE: cDNA
(C) STRANDEDNESS: both
(D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

CAAGTAACAC	CCGCAAGATG	ATAGAGGATC	TGCAGAGTGA	GCATCATGGA	TTGGTTATGC	60
TTTACCATTT	ATTAGAAGAC	TATGAAATGG	CAGCAAAAAT	TTTAGAAGAG	TTTAGGAAAA	120
CACAGCAGAC	ATCTCCTGAT	AAAGTGGATT	ATGAATATAG	TGAACTCCTC	TTATATCAGA	180
ATCAAGTTCT	TCGGGAAGCA	GGTCTTTATA	GAGAAGCCCT	GGAACATCTT	TGTACCTATG	240
AAAAGCAGAT	TTGTGATAAA	CTTGCTGTTG	AAGAAACCAA	AGGGGAACCT	CTGTTGCAGT	300
TGTGTCGTTT	GGAAGATGCT	GCTGACGTTT	ATAGAGGATT	ACAAGAGAGG	AATCCTGAAA	360
ATTGGGCCTA	TTACAAAGGC	TTAGAAAAAG	CACTGAAGCC	AGCTAATATG	TTAGAACGGC	420
TAAAAATATA	TGAGGAAGCC	TGGAATAAAT	ACCCAGGGG	ACTCGTGCCA	AGAAAGCTGC	480
CCTTAAACTT	TTTATCTGGA	GAGAAGTTTA	AGGAGTGTTT	GGATAGGTTC	CTAAGGATGA	540
ATTTACAGCA	GGGCTGTCCA	CCTGTCTTCA	ATACCTTGAG	GTCTTTATAC	AGAGATAAAG	600
AGAAGGTGGC	AATCGTAGAA	GAAC TAGTAG	TTGGTTATGA	AACTTCTCTA	AAAAGTTGTC	660
GCCTATTTAA	CCCCAATGAT	GATGGAAAGG	AGGAACCTCC	AACCACATTA	CTTTGGGTCC	720
AGTACTATTT	GGCACAGCAT	TATGATAAAA	TTGGTCAGCC	ATCCATTGCT	CTGGAATACA	780
TAAATACTGC	AATTGAAAGT	ACACCAACAT	TGATAGAACT	CTTTCTTGTA	AAAGCTAAAA	840

TCTATAAGCA TGCTGGGAAT ATTAAGAAG CTGCCAGGTG GATGGATGAA GCCCAGGCC 900

TGGACACAGC AGACAGATTT ATTAATTCCA AGTGTGCAA ATACATGTTA AAAGCCAACC 960

TGATTAAAGA GGCTGAAGAA ATGTGTTCCA AGTTTACGAG GGAAGGAACT TCAGCGGTAG 1020

AGAACCTGAA TGAAATGCAG TGTATGTGGT TCCAGACAGA GTGTGCTCAG GCATACAAAG 1080

CAATGAACAA ATTTGGTGAA GCACTTAAGA AATGTCATGA AATTGAGAGA CATTTTATAG 1140

AAATCACCGA TGACCAGTTT GACTTTCATA CATACTGTAT GAGGAAGATC ACCCTTAGAT 1200

CATATGTGGA CTTATTAAAA CTAGAAGATG TACTTCGACA GCATCCATTT TACTTCAAAG 1260

CAGCGAGAAT TGCTATTGAG ATCTATTGA AGCTTCATGA CAACCCTCTG ACAGATGAGA 1320

ACAAAGAACA CGAGGCTGAT ACAGCAAACA TGTCTGACAA AGAGCTAAAG AAAGTGCCTA 1380

ATAAACAAAG AAGAGCTCAA AAGAAAGCCC AGATTGAAGA AGAGAAAAAA AATGCCGAAA 1440

AAGAAAAGCC GCAACGGAAT CCGAAAAAGA AAAAGGATGA TGATGACGAA GAAATTGGAG 1500

GCCCCAAAGA AGAGCTTATC CCTGAGAAAC TGGCCAAGGT TGAAACTCCA TTGGAAGAAG 1560

CTATTAAGTT TTAAACACCA TTGAAGAACT TGGTGAAGAA CAAGATAGAA ACTCATCTTT 1620

TTGCCTTTGA GATCTACTTT AGGAAAGAAA AGTTTCTTTT GATGCTACAA TCAGTAAAGC 1680

GGGCATTTGC TATTGATTCT AGTCATCCCT GGCTTCATGA GTGCATGATT CGACTCTTTC 1740

ATTCTGTGTG TGAAAGTAAA GACTTACCCG AACAGTTAG AACAGTATTA AAACAAGAAA 1800

TGAATCGTCT TTTTGAGCA ACAATCCAA AGAATTTTAA TGAAACCTTT CTGAAAAGGA 1860

ATTCTGATTC ATTGCCACAT AGATTATCAG CTGCCAAAAT GGTATATTAT TTAGATTCTT 1920

CTAGTCAAAA ACGAGCAATA GAGCTGGCGA CAACACTTGA TGGATCCCTC ACCAACAGAA 1980

ACCTTCAGAC TTGCATGGAA GTGTTGGAAG CCTTGTGTGA TGGTAGCCTA CGAGACTGTA 2040

AAGAAGCTGC CGAAGCCTAC AGAGCAAGTT GTCATAAGCT TTTCCCTTAT GCTTTGGCTT 2100

TCATGCCTCC TGGATACGAA GAGGATATGA AGATCACAGT GAACGGAGAT AGTTCTGCAG 2160

AAACGGAAGA ACTGGCCAAT GAAATCTGAA CATCATTTAA CAAGCAAATG GAATGACTTT 2220

GGACCATATC TAGTGATATA TATTTTGTG ACGCACCTGC TGCATTGCTC TTAATTACAC 2280

AGAATGAGAG GAGTAAATGT TCTTGCCTTC AAATAGTCTT ACGTTTTTTA TCCTGCTGAA 2340

AACTATATAT AAAATATCTA ACATTACAGG ATATAGGTTT AGTTTCTTAA AAAATTAAAA 2400

GCTGCTAAAA TTGAGGGGTT TAAAAGAAAA AAAAATCCGT ATCCTATTCC TACCTTCCCT 2460

TCCCATGTTT TTAACCTAAT TATATAAAAT CTGGAGGCTA TAACAGCTAA CATAGCAGGT 2520

GTGTGGCAGA AATATTACTT TAAATTTGTC TTGTGAGATT TTGCTATATC TCAGACAGCA 2580

TAAATAAATG CTGTTTTAGC ACTGGATTCT TTTACTGAGC ACAAAGAGTT GTTGGGGCTT 2640

TAGCATCTGC CTGATTCTGT TACGGGGTTG GTGATTGACC ATAGGAAGTA TGCAATGTGA 2700

ATCACTGTGT ACAGAGCCGT CTACAACACA TGCTTGACGT TGTAGAGACT GGGACACATA 2760

GCTACCAAGC GGATTAAGTG AAACCTAGAA GGTGTTTCACT ACGTGTGTTG TGTTTCCAAA 2820

ATTCACGTGA CATGATCAGT TTGGTGTCT TGTACCACAG TTTTAAACCG AAGGAACCAG	2880
TTGGAACAAT CTCAATTTAA CTAAACTTG AAGAACTAAA ATAACAATGC AAACCTTTAT	2940
CATTGTTTTG GCCAACTTG TTAAACTGT AATGCAAGAA CCAAATGCAC TGTGATGTGG	3000
CACCAACTAA TTATGCAAGC ATGAATTTTT CACCTGAGAG TGAAAAAGA AAACCTCTACC	3060
ATGGCTTGAA GTTACAGGAG CAGAACTCCT GACTACCATT CTATGACTGA TGAAGAGACT	3120
AATATCTAAA ACCTCAGCAG GCCTTGTTCA CGATATGCAG AAAAAGTGCT GCAGTTTAGA	3180
TACCTCTGGG AACTTTTCCA CAGTGTACA GGTGTGTAAT ACTTGAAGCC CTTCATTTCT	3240
AAGAATATAT TTCTCGCTCA GTTGTTCAG GCAAGCCCAA GACTTTGTAA TTTTAAAGG	3300
GCCCAAGATT TTTTTTCAA TAACAGACCA GCTTCTTTT CCTGCAGTTA CAAATGTAAT	3360
TTCTTTTTTT TTTTGTGTC AACATAAGG TACCAAATAT GCAATAAATT GTTTTGGG	3418

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS

(A) LENGTH: 1413 base pairs

(B) TYPE: cDNA

(C) STRANDEDNESS: both

(D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: No

(iv) ANTISENSE: Yes

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

TCTGGGCTTT CTTTGAGCT CTTCTTGTT TATTACGAG TTTCTTAGC TCTTTGTCAG	60
ACATGTTTGC TGTATCAGCC TCGTGTCTT TGTTCATC TGTGAGAGG TTGTCATGAA	120
GCTTCAAATA GATCTCAATA GCAATTCTCG CTGCTTTGAA GTAAATGGA TGCTGTCGAA	180
GTACATCTTC TAGTTTAAAT AAGTCCACAT ATGATCTAAG GGTGATCTTC CTCATACAGT	240
ATGTATGAAA GTCAAAGTGG TCATCGGTGA TTTCTATAAA ATGTCTCTCA ATTTTCATGAC	300
ATTTCTTAAG TGCTTCACCA AATTTGTTCA TTGCTTTGTA TGCCTGAGCA CACTCTGTCT	360
GGAACCACAT AACTGCATT TCATTCAGGT TCTCTACCGC TGAAGTTCCT TCCCTCGTAA	420
ACTTGGAACA CATTTCTTCA GCCTCTTAA TCAGGTGGC TTTTAACATG TATTTTGCAC	480
ACTTGGAATT AATAAATCTG TCTGCTGTGT CCAGGGCCTG GGCTTCATCC ATCCACCTGG	540
CAGCTTCTTT AATATCCCA GCATGCTTAT AGATTTTAGC TTTTACAAGA AAGAGTTCTA	600
TCAATGTTGG TGTACTTCA ATTGCAGTAT TTATGTATC CAGAGCAATG GATGGCTGAC	660
CAATTTTATC ATAATGCTGT GCCAAATAGT ACTGGACCCA AAGTAATGTG GTTGGAGGTT	720

CCTCCTTTCC ATCATCATTG GGGTTAAATA GGCACAACT TTTTAGAGAA GTTTCATAAC 780
 CAACTACTAG TTCTTCTACG ATTGCCACCT TCTCTTTATC TCTGTATAAA GACCTCAAGG 840
 TATTGAAGAC AGGTGGACAG CCCTTGCTGA AATTCATCCT TAGGAACCTA TCCAAACACT 900
 CCTTAAACTT CTCTCCAGAT AAAAAGTTTA AGGGCAGCTT TCTTGGCACG AGTCCCCTGG 960
 GGTATTTAGT CCAGGCTTCC TCATATATTT TTAGCCGTTT TAACATATTA GCTGGCTTCA 1020
 GTGCTTTTTT TAAGCCTTTG TAATAGGCCC AATTTTCAGG ATTCCTCTCT TGTAATCCTC 1080
 TATAAACGTC AGCAGCATCT TCCAAACGAC ACAACTGCAA CAGAAGTTCC CCTTTGGTTT 1140
 CTTCAACAGC AAGTTTATCA CAAATCTGCT TTTCATAGGT ACAAAGATGT TCCAGGGCTT 1200
 CTCTATAAAG ACCTGCTTCC CGAAGAACTT GATTCTGATA TAAGAGGAGT TCACTATATT 1260
 CATAATCCAC TTTATCAGGA GATGTCTGCT GTGTTTTCTT AACTCTTCT AAAATTTTTG 1320
 CTGCCATTTT ATAGTCTTCT AATAAATGGT AAAGCATAAC CAATCCATGA TGCTCACTCT 1380
 GCAGATCCTC TATCATCTTG CGGGTGTTAC TTG 1413

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS

(A) LENGTH: 3418 base pairs

(B) TYPE: cDNA

(C) STRANDEDNESS: both

(D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: No

(iv) ANTISENSE: Yes

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

CCCAAAACAA TTTATTGCAT ATTTGGTACC TTATGTTTGA CAACAAAAAA AAAAAGAAAT 60
 TACATTTGTA ACTGCAGGAA AAAGAAGCTG GTCTGTTATT GAAAAAATA TCTTGGGCCC 120
 TTTAAAAATT ACAAAGTCTT GGGCTTGCTT GAAACAACTG AGCGAGAAAT ATATTCTTAG 180
 AAATGAAGGG CTTCAAGTAT TACAAACCTG TGACACTGTG GAAAAGTTCC CAGAGGTATC 240
 TAAACTGCAG CACTTTTTCT GCATATCGTG AACAAGGCCT GCTGAGGTTT TAGATATTAG 300
 TCTCTTCATC AGTCATAGAA TGGTAGTCAG GAGTTCTGCT CCTGTAACTT CAAGCCATGG 360
 TAGAGTTTTT TTTTTTCACT CTCAGGTGAA AAATTCATGC TTGCATAATT AGTTGGTGCC 420
 ACATCACAGT GCATTTGGTT CTTGCATTAC AGTTTAAACA AGTTTGGCCA AAACAATGAT 480
 AAAGGTTTGC ATTGTTATTT TAGTCTTCA AGTTTGTAGT AAATTGAGAT TGTTCCTCACT 540
 GGTTCCTTCG GTTAAAAACT GTGGTACAAG AACACCAAC TGATCATGTA CAGTGAATTT 600

TGGAACACA	ACACACGTAC	TGAACACCTT	CTAGGTTTCA	CTTAATCCGC	TTGGTAGCTA	660
TGTGTCCCAG	TCTCTACAAC	GTCAAGCATG	TGTTGTAGAC	GGCTCTGTAC	ACAGTGATTG	720
ACATTGCATA	CTTCCTATGG	TCAATCACCA	ACCCCGTAAC	AGAATCAGGC	AGATGCTAAA	780
GCCCCAACAA	CTCTTTGTGC	TCAGTGAAAG	AATCCAGTGC	TAAAACAGCA	TTTATTTATG	840
CTGTCTGAGA	TATAGCAAAA	TCTCACAAGA	CAAATTTAAA	GTAATATTTT	TGCCACACAC	900
CTGCTATGTT	AGCTGTTATA	GCCTCCAGAT	TTTATATAAA	TTAGTTAAAA	ACATGGGAAG	960
GGAAGGTAGG	AATAGGATAC	GGATTTTTTT	TTCTTTTAAA	CCCCTCAATT	TTAGCAGCTT	1020
TTAATTTTTT	AAGAACTGA	ACCTATATCC	TGTAATGTTA	GATATTTTAT	ATATAGTTTT	1080
CAGCAGGATA	AAAAACGTAA	GACTATTTGA	AGGCAAGAAC	ATTTACTCCT	CTCATTCTGT	1140
GTAAGTAAGA	GCAATGCAGC	AGGTGCGTGA	CAAAAATATT	ATACACTAGA	TATGGTCCAA	1200
AGTCATTCCA	TTTGCTTGTT	TAATGATGTT	CAGATTTTCA	TGGCCAGTTC	TTCCGTTTCT	1260
GCAGAACTAT	CTCCGTTTCA	TGTGATCTTC	ATATCCTCTT	CGTATCCAGG	AGGCATGAAA	1320
GCCAAAGCAT	AAGGGAAAAG	CTTATGACAA	CTTGCTCTGT	AGGCTTCGGC	AGCTTCTTTA	1380
CAGTCTCGTA	GGTACCATC	ACACAAGGCT	TCCAACACTT	CCATGCAAGT	CTGAAGGTTT	1440
CTGTTGGTGA	GGGATCCATC	AAGTGTGTGC	GCCAGCTCTA	TTGCTCGTTT	TTGACTAGAA	1500
GAATCTAAAT	AATATAACCAT	TTTGCGCAGCT	GATAATCTAT	GTGGCAATGA	ATCAGAATTC	1560
CTTTTCAGAA	AGGTTTCATT	AAAATTCCTT	GGATTTGTGT	CTCCAAAAAG	ACGATTCATT	1620
TCTTGTTTTA	ATACTGTTCT	AACTGTTTCG	GGTAAGTCTT	TACTTTCACA	CACAGAATGA	1680
AAGAGTCGAA	TCATGCACTC	ATGAAGCCAG	GGATGACTAG	AATCAATAGC	AAATGCCCGC	1740
TTTACTGATT	GTAGCATCAA	AAGAACTTTT	TCTTTCCTAA	AGTAGATCTC	AAAGGCAAAA	1800
AGATGAGTTT	CTATCTTGTT	CTTCACCAAG	TTCTTCAATG	GTGTTAAAAA	CTTAATAGCT	1860
TCTTCCAATG	GAGTTTCAAC	CTTGCCAGT	TTCTCAGGGA	TAAGCTCTTC	TTTGGGGCCT	1920
CCAATTTCTT	CGTCATCATC	ATCCTTTTTT	TTTTTCGGAT	TCCGTTGCGG	CTTTTCTTTT	1980
TCGGCATTTC	TTTTCTCTTC	TTCAATCTGG	GCTTTCCTTT	GAGCTCTTCT	TTGTTTATTA	2040
CGCAGTTTCT	TTAGCTCTTT	GTCAGACATG	TTTGCTGTAT	CAGCCTCGTG	TTCTTTGTTC	2100
TCATCTGTCA	GAGGGTTGTC	ATGAAGCTTC	AAATAGATCT	CAATAGCAAT	TCTCGCTGCT	2160
TTGAAGTAAA	ATGGATGCTG	TCGAAGTACA	TCTTCTAGTT	TTAATAAGTC	CACATATGAT	2220
CTAAGGGTGA	TCTTCCTCAT	ACAGTATGTA	TGAAAGTCAA	ACTGGTCATC	GGTGATTCTT	2280
ATAAAATGTC	TCTCAATTTT	ATGACATTTT	TTAAGTGCTT	CACCAAATTT	GTTTATTGCT	2340
TTGTATGCCT	GAGCACACTC	TGTCTGGAAC	CACATACACT	GCATTTTATT	CAGGTTCTCT	2400
ACCGCTGAAG	TTCTTCCCTT	CGTAACTTGT	GAACACATTT	CTTCAGCCTC	TTTAATCAGG	2460
TTGGCTTTTA	ACATGTATTT	TGCACACTTG	GAATTAATAA	ATCTGTCTGC	TGTGTCCAGG	2520
GCCTGGGCTT	CATCCATCCA	CCTGGCAGCT	TCTTTAATAT	TCCCAGCATG	CTTATAGATT	2580

TTAGCTTTTA CAAGAAAGAG TTCTATCAAT GTTGGTGTAC TTTCAATTGC AGTATTTATG	2640
TATTCAGAG CAATGGATGG CTGACCAATT TTATCATAAT GCTGTGCCAA ATAGTACTGG	2700
ACCCAAAGTA ATGTGGTTGG AGGTTCTCTCC TTTCCATCAT CATTGGGGTT AAATAGGCGA	2760
CAACTTTTTA GAGAAGTTTC ATAACCAACT ACTAGTTCTT CTACGATTGC CACCTTCTCT	2820
TTATCTCTGT ATAAAGACCT CAAGGTATTG AAGACAGGTG GACAGCCCTT GCTGAAATTC	2880
ATCCTTAGGA ACCTATCCAA AACTCCTTA AACTTCTCTC CAGATAAAAA GTTTAAGGGC	2940
AGCTTTCTTG GCACGAGTCC CCTGGGGTAT TTAGTCCAGG CTTCTCATA TATTTTTAGC	3000
CGTTCTAACA TATTAGCTGG CTTCACTGCT TTTTCTAAGC CTTTGTAATA GGCCCAATTT	3060
TCAGGATTCC TCTCTGTAA TCCTCTATAA ACGTCAGCAG CATCTTCCAA ACGACACAAC	3120
TGCAACAGAA GTTCCCCTTT GGTTTCTTCA ACAGCAAGTT TATCACAAAT CTGCTTTTCA	3180
TAGGTACAAA GATGTTCCAG GGCTTCTCTA TAAAGACCTG CTTCCCGAAG AACTTGATTC	3240
TGATATAAGA GGAGTTCCT ATATTCATAA TCCACTTTAT CAGGAGATGT CTGCTGTGTT	3300
TTCCTAAACT CTTCTAAAAT TTTTGCTGCC ATTCATAGT CTTCTAATAA ATGGTAAAGC	3360
ATAACCAATC CATGATGCTC ACTCTGCAGA TCCTCTATCA TCTTGCGGGT GTTACTTG	3418